Index of Claims



Application/Control No.

09/886,975

Examiner

Thomas M. Ho

Applicant(s)/Patent under Reexamination

BOOM, DOUGLAS D.

Art Unit

2132

| <b>√</b> | Rejected |
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| _        | Allowed  |

| 1 | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla                        | Date                  |              |              |              |  |              |  |  |  |          |
|----------------------------|-----------------------|--------------|--------------|--------------|--|--------------|--|--|--|----------|
| ۳                          |                       |              |              | г <u>`</u>   |  |              |  |  | $\vdash$   |          |
| Final                      | Original              | 90/2/6       |              |              |  |              |  |  |  |          |
| 1                          | 1                     | =            |              |              |  |              |  |  |  |          |
| 2                          | 2                     | =            |              |              |  |              |  |  | $\Box$   |          |
| 3                          | 1<br>2<br>3<br>4<br>5 | =            |              |              | Г  |              |  |  |  |          |
| 3<br>4<br>5                | 4                     | =            | _            | $\vdash$     | $\vdash$   |              |  |  | $\vdash$   |          |
| 5                          | 5                     | =            |              | _            | $\vdash$   | -            | _  |  | $\vdash$   |          |
| 6                          |                       | =            | _            | $\vdash$     | H  |              |  | $\vdash$   | $\vdash$   |          |
| 7                          | 6<br>7                | _            |              | -            | ┢  | $\vdash$     | -  | -  |  | -        |
| 8                          | 8                     | =            | $\vdash$     | $\vdash$     | ⊢  | _            |  | -  | ⊢  |          |
| 9                          | 9                     | =            | $\vdash$     | -            | ┢  | -            |  | -  | -  |          |
| 10                         | 10                    | =            | _            | -            | <u> </u>   | H            | _  | $\vdash$   |  |          |
|                            |                       | -            |              | -            | ├  | -            | -  | $\vdash$   |  |          |
| 11                         | 11                    | =            | <u> </u>     |              | $\vdash$   | $\vdash$     | <u> </u>   | $\vdash$   | $\vdash$   |          |
| 11<br>12<br>13<br>14<br>15 | 12<br>13              | =            |              | $\vdash$     | ├  | $\vdash$     | <u> </u>   | $\vdash$   | H  | $\vdash$ |
| 13                         | 13                    | =            | -            | $\vdash$     | <u> </u>   | ├—           | <u> — </u>                                       | $\vdash$   | <u> </u>   |          |
| 14                         | 14<br>15              | =            | _            | $\vdash$     | $\vdash$   | <u> </u>     | $\vdash$   | $\vdash$   | $\vdash$   |          |
| 15                         | 15                    | =            | $\vdash$     |              | <u> </u>   | <u> </u>     | <u> </u>   |  |  |          |
| 16                         | 16                    | =            |              |              |  |              |  | _  | L  |          |
| <u></u>                    | 17<br>18              |              |              |              | _  |              |  | L  |  |          |
| 17                         | 18                    | =            |              |              |  |              | _  |  |  |          |
|                            | 19                    |              |              |              |  |              | L  |  |  |          |
| 18                         | 20                    | =            |              |              |  |              |  |  |  |          |
|                            | 21                    |              |              |              |  |              |  |  |  |          |
| 19                         | 22                    | =            | Г            |              |  | Г            |  |  |  |          |
| 20                         | 23                    | =            | Г            |              |  |              |  | Г  |  |          |
| 21                         | 24                    | =            |              |              |  |              |  | Г  |  |          |
|                            | 25                    |              | Г            |              |  |              | _  |  |  |          |
| 22                         | 26                    | =            |              |              |  |              |  |  |  |          |
|                            | 27                    |              |              |              |  |              |  |  | -  |          |
| 23                         | 28                    | ऻ=           | _            | Г            |  |              |  |  |  |          |
|                            | 29                    |              |              |              |  |              |  |  | $\overline{}$                                    |          |
| 24                         | 30                    | =            | $\vdash$     |              |  |              | _  |  |  |          |
| 25                         | 31                    | =            | $\vdash$     |              |  |              |  |  |  |          |
| _ <u></u>                  | 32                    |              | Ι            | <u> </u>     |  |              |  | _  | $\vdash$   |          |
|                            | 33                    | $\vdash$     | $\vdash$     | ┢            | $\vdash$   |              | <del>                                     </del> | $\vdash$   | $\vdash$   | Н        |
| <u> </u>                   | 34                    | H            | $\vdash$     | ┢            | <del>                                     </del> | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$ |
| -                          | 35                    | H            | $\vdash$     | ┰            | $\vdash$   | <del> </del> | $\vdash$   | <del>                                     </del> | $\vdash$   | _        |
| <b></b>                    | 36                    | $\vdash$     | $\vdash$     | $\vdash$     | $\vdash$   | -            | $\vdash$   | <del>                                     </del> | $\vdash$   | Н        |
| <u> </u>                   | 37                    | $\vdash$     | ├            | $\vdash$     | $\vdash$   | -            | ├─   | -  | $\vdash$   | $\vdash$ |
| $\vdash$                   | 38                    | $\vdash$     | $\vdash$     | $\vdash$     | <del> </del>                                     | $\vdash$     | ╁  | $\vdash$   | $\vdash$   | $\vdash$ |
| $\vdash$                   | 39                    | $\vdash$     | $\vdash$     | ⊢            | $\vdash$   | -            |  | $\vdash$   | -  | $\vdash$ |
| <u> </u>                   | 40                    | ├            | $\vdash$     |              | ⊢  | $\vdash$     | ⊢  | $\vdash$   | H  |          |
| <u> </u>                   |                       | <del> </del> | ├-           | $\vdash$     | -  | $\vdash$     | $\vdash$   | $\vdash$   | ├  | $\vdash$ |
| <u> </u>                   | 41                    | ├—           | <del> </del> | -            | <del> </del>                                     | ├-           |  | $\vdash$   | <del>                                     </del> | $\vdash$ |
|                            | 42                    | <u> </u>     |              | $\vdash$     | ├-   | $\vdash$     | $\vdash$   | ├  | $\vdash$   | $\vdash$ |
| <u> </u>                   | 43                    | $\vdash$     | ├            | <del> </del> | <u> </u>   |              |  | ⊢  | -  | $\vdash$ |
| <u> </u>                   | 44                    | <u> </u>     | <u> </u>     | <b>⊢</b>     | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>   | <u> </u>   | Н        |
| -                          | 45                    | _            | ļ            | _            | <u> </u>   | $\vdash$     | ┞  | ⊢  | <u> </u>   | <u> </u> |
| 26                         | 46                    | =            | _            | _            | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>   |  | Щ        |
| 27                         | 47                    | =            | L            | L_           |  |              |  | L  |  |          |
| 28                         | 48                    | =            | L            | L_           | L_   | ∟            | <u> </u>   | <u> </u>   | L_   | Ш        |
|                            |                       |              |              |              |  |              |  |  | l .  | i l      |
| 29<br>30                   | 49<br>50              | =            | <u> </u>     | _            |  |              | _  | L  |  |          |

| Cia      | Date     |          |  |              |          |          |          |          |               |          |
|----------|----------|----------|--|--------------|----------|----------|----------|----------|---------------|----------|
| Cli      | aim      | -        |  |              | ᅡ        | Jak      | ;        | _        | $\overline{}$ |          |
| Final    | Original | 90/2/6   |  |              |          |          |          |          |               |          |
| 31       | 51       | =        |  |              |          |          |          |          |               |          |
|          | 51<br>52 | Г        |  |              |          |          |          |          |               |          |
|          | 53       |          |  |              |          |          |          |          |               |          |
|          | 54       |          |  |              |          |          |          |          |               |          |
|          | 54<br>55 |          |  |              |          |          |          |          |               |          |
|          | 56       | Г        |  |              |          |          |          |          |               |          |
|          | 57       | $\Box$   |  |              |          |          |          |          |               |          |
|          | 58       |          |  |              |          |          |          |          |               |          |
|          | 59       |          |  |              |          |          |          |          |               |          |
|          | 60       |          |  |              |          |          |          |          |               |          |
|          | 61       |          |  |              |          |          |          |          |               |          |
|          | 62       |          |  |              |          |          |          |          |               |          |
|          | 62<br>63 |          |  |              |          |          |          |          |               |          |
|          | 64       |          |  |              |          |          |          |          |               | L        |
|          | 65       |          |  |              |          |          |          |          | L             |          |
|          | 66       | L        | <u> </u>   | _            |          |          |          |          |               |          |
|          | 67       | _        | L  |              |          |          |          |          |               |          |
| <u></u>  | 68       |          | _  | _            |          |          |          |          | ldash         |          |
| <u> </u> | 69       | _        |  |              |          |          |          |          |               |          |
|          | 70       | <u> </u> | <u> </u>   | _            |          |          |          |          | _             |          |
| <u> </u> | 71       |          | <u> </u>   | ļ            |          | _        |          |          | _             | _        |
| -        | 72       | _        | ⊢  |              | _        | $\vdash$ |          |          | l-            | _        |
|          | 73<br>74 | <u> </u> | <u> </u>   | -            |          | _        |          |          |               |          |
| -        | 75       | -        | -  | _            |          | H        |          |          | $\vdash$      | _        |
| -        | 76       | H        | ┝  | ├            | -        | ⊢        |          |          | ┝╼            | _        |
|          | 77       | H        | ┢  | -            | -        |          |          |          | H             |          |
| -        | 78       | _        | $\vdash$   | -            | $\vdash$ | ┢        | $\vdash$ | $\vdash$ | H             |          |
|          | 79       | ┢        | -  |              |          | ┢        |          |          | H             |          |
| <b>—</b> | 80       | -        | <del>                                     </del> | <u> </u>     |          | -        | Н        |          | Н             | _        |
| <u> </u> | 81       | $\vdash$ | $\vdash$   | -            | $\vdash$ | $\vdash$ |          | _        | $\vdash$      | -        |
| · ·      | 82       |          |  |              |          |          |          |          |               |          |
|          | 83       | $\vdash$ | · · ·  |              |          |          |          |          |               |          |
|          | 84       | Г        | Г  |              |          |          |          |          |               |          |
|          | 85       |          |  |              |          |          |          |          |               |          |
|          | 86       |          |  |              |          |          |          |          |               |          |
|          | 87       |          | L  |              | 匚        |          |          |          |               |          |
| <u> </u> | 88       |          | L  |              |          |          |          |          |               |          |
| L_       | 89       |          |  | <u> </u>     |          | L        | _        |          | _             | L        |
| ļ        | 90       | L        | <u> </u>   | <u> </u>     |          | _        | _        | Щ        |               | ļ        |
| <u> </u> | 91       | L_       | <u> </u>   | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | oxdot    | <u> </u>      | _        |
|          | 92       | <u> </u> | <u> </u>   | ⊢            | <b> </b> | <u> </u> | <u> </u> | <u> </u> | $\vdash$      | _        |
| <u> </u> | 93       | <u> </u> | <u> </u>   |              | _        | -        | $\vdash$ | L_       | <u> </u>      | <u> </u> |
| -        | 94       | ├-       | <del> </del>                                     | -            | $\vdash$ | $\vdash$ | <u> </u> | <u> </u> | ├—            | <u> </u> |
|          | 95       |          | ├  | ├            | $\vdash$ | ⊢        | $\vdash$ | $\vdash$ | ⊢             | $\vdash$ |
| $\vdash$ | 96<br>97 | ├        | -  | -            | $\vdash$ | $\vdash$ | ⊢        | H        | $\vdash$      | $\vdash$ |
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|          | 1 22     | 1        | ı  | L            | 1        | 1        | 1        | I        | I             |          |

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| <u>a</u>    | Oʻriginal         |              |          |              |              |                |          |  |            |                 |
| Final       | írig              |              |          |              |              |                |          |  |            |                 |
|             |                   |              |          |              |              |                |          |  |            |                 |
|             | 101<br>102        | -            |          |              |              | -              |          |  | -          | П               |
|             | 102               |              |          |              |              | _              |          |  | _          | П               |
|             | 103               |              |          |              |              |                |          |  |            | Н               |
|             | 104               |              |          |              |              |                |          |  |            | Н               |
|             | 104<br>105        |              | _        |              |              |                |          | _  | _          | $\dashv$        |
|             | 106               |              |          | _            |              |                |          | -  |            | $\dashv$        |
|             | 107               | H            | _        | _            | _            | $\vdash$       | -        |  |            | $\dashv$        |
|             | 108               |              |          |              |              | -              |          | _  | -          | $\dashv$        |
|             | 109               |              |          | $\vdash$     |              |                |          | _  |            | $\dashv$        |
|             | 110               | _            |          | $\vdash$     |              | _              |          | -  | _          | $\dashv$        |
|             | 110               | $\vdash$     |          | -            |              | _              | _        | -  |            | $\dashv$        |
|             | 111               | <u> </u>     |          | Н            | $\vdash$     | $\vdash$       | $\vdash$ | $\vdash$   | <b>-</b>   | $\vdash$        |
|             | 112<br>113        | H            |          | H            | $\vdash$     | Ь              | <b> </b> |  | $\vdash$   | $\vdash \vdash$ |
|             | 113               |              | <u> </u> | Н            | $\vdash$     | _              | <u> </u> | Ë  |            | $\vdash \vdash$ |
|             | 114               | _            | <u> </u> | $\vdash$     |              | <b></b>        | <u> </u> | $\vdash$   | -          | Щ               |
|             | 115               | lacksquare   |          | $\vdash$     | L_           | <u> </u>       | L        | L.,  | Щ          | Щ               |
|             | 116               | L.,          |          | _            |              | <u> </u>       | _        |  |            | Щ               |
|             | 117               |              |          | L            | _            |                |          | _  |            |                 |
|             | 118               |              |          |              |              |                |          | L  |            |                 |
|             | 119               |              |          | L.           |              | L.             |          |  |            | Ш               |
|             | 120<br>121<br>122 |              |          |              |              |                |          |  |            |                 |
|             | 121               |              |          |              |              |                |          |  |            |                 |
|             | 122               |              |          |              |              |                |          |  |            |                 |
|             | 123               |              |          |              |              |                |          |  |            |                 |
|             | 123<br>124<br>125 |              |          |              |              |                |          |  |            |                 |
|             | 125               |              |          | Г            |              |                |          |  |            |                 |
|             | 126<br>127        |              |          |              |              |                |          |  |            |                 |
|             | 127               |              |          |              |              |                | Г        |  |            |                 |
| _           | 128<br>129<br>130 | П            | Т        |              |              |                |          |  |            |                 |
|             | 129               | _            | Т        | Ι            | _            |                |          |  | Г          |                 |
|             | 130               | Т            | ┢        | ┢            |              |                | <u> </u> | ┪  | -          | П               |
|             | 131               | H            | $\vdash$ | $\vdash$     |              | -              | -        | -  |            | Н               |
|             | 131<br>132<br>133 | _            | $\vdash$ | -            | _            | _              | $\vdash$ | $\vdash$   | $\vdash$   | Н               |
| <del></del> | 133               | ┢            | -        | -            | ├─           | ┢              | $\vdash$ | ┢  | $\vdash$   | Н               |
|             | 134               |              | $\vdash$ | $\vdash$     | ┝            | -              | $\vdash$ | _  | $\vdash$   | Н               |
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| <u> </u>    | 137               | <del>-</del> | $\vdash$ | ⊢            | ⊢            | -              |          | -  | -          | Н               |
|             | 138               | -            | -        | -            | ├─           | ┝              | H        | ├  | ⊢          | Н               |
|             | 130               | -            |          | <del> </del> | ⊢            | ⊢              | ⊢        | ⊢  | ├          | $\vdash$        |
| <u> </u>    | 139<br>140        | -            | $\vdash$ | $\vdash$     | $\vdash$     | ⊢              | ├─       | <del>                                     </del> | ⊢          | $\vdash\vdash$  |
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| <u> </u>    | 141               | -            |          | <del> </del> | $\vdash$     | $\vdash$       | $\vdash$ | ⊢  | ⊢          | Н               |
| <u> </u>    | 142               | ⊢            | <u> </u> | <u> </u>     | -            | <u> </u>       | <u> </u> |  | <u> </u>   | Н               |
| <u> </u>    | 143               | Ь—           | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>       | ⊢        | ⊢  | <u> </u>   | Н               |
| L           | 144               | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>       | <u> </u> | Ь  | <u> </u>   | Н               |
|             | 145               | <u> </u>     | <u> </u> | <u> </u>     |              | <u> </u>       | <u> </u> | <u> </u>   | <b> </b> _ | ⊣               |
|             | 146               | <u> </u>     | <u> </u> |              | <u> </u>     | <u> </u>       | <u></u>  |  | <u> </u>   | Ш               |
|             | 147               | _            | L        |              | 匚            | <u> </u>       | _        | <u> </u>   | <u> </u>   | L.,             |
|             | 148               |              | L        | _            | $oxed{oxed}$ | L              | <u>L</u> |  | L          |                 |
|             | 149               |              | L        | L            | L            | Ĺ              |          | 匸  | L          |                 |
|             | 150               |              |          |              |              |                |          |  |            |                 |
|             |                   |              |          |              |              | _              |          |  |            |                 |